Parabolas-Ellipses Review WS Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per \_\_\_\_\_ Date \_\_\_\_

1-4, Find the equation of the given conic with the given information.

1. Ellipse 2. Circle

Vertices: (7,-3), (3, -3) Endpoints of the diameter: ( -2, 4) and (8, 10)

Foci: (6, -3), (4, -3)

3. Parabola 4. Parabola

vertex: (2, -3) Focus: ( -3, 5)

Focus: (2,1) Directrix: x = 1

5-8, Determine if the conic is a parabola, circle or an ellipse. Put the equation into standard form. Find the following for each conic; parabola: vertex, focus, directrix, and LR points, circle: center, radius and ellipse: center, foci, vertices, and co-vertices .

5. 4x2 + 25y2 + 24x – 300y +836 =0 6. 4x2 + 4y2 – 8x + 16y -100 = 0

7. x2 – 4x + 4y + 24 = 0 8. y2 + 12x – 6y + 33 = 0